



## HOBO® ZW-005 Data Logger

### Four-Channel Data Node

The HOBO® ZW-005 is an easy-to-deploy, 4-channel wireless temperature/relative humidity data node. It includes an external 2m temperature/relative humidity sensor probe, and features one analog port, and one pulse input port. It wirelessly transmits data in real time, reducing the costs and inconvenience associated with manual data offload.

#### Supported Measurements:

4-20mA, AC Current, AC Voltage, Air Velocity, Amp Hour (Ah), Amps (A), Carbon Dioxide, Compressed Air Flow, DC Current, DC Voltage, Dew Point, Differential Pressure, Gauge Pressure, Kilowatt Hours (kWh), Kilowatts (kW), Power Factor (PF), Pulse Input, Relative Humidity, Temperature, Volt-Amp Reactive, Volt-Amp Reactive hour, Volt-Amps (VA), Volts (V), Water Flow, Watt Hours (Wh) and Watts (W)

#### Key Advantages:

- Wirelessly transmits real-time data
- Compact size for easy deployment wherever data is needed
- Accepts a wide range of external energy and environmental sensors
- Notifies you of alarm conditions via email or text messages
- Onboard buffer memory helps prevent data loss
- Powerful HOBOWare® Pro software for organizing and viewing data (included with HOBO data receiver)

A complete system requires at least one wireless HOBO data node, HOBO data receiver (ZW-RCVR), and HOBOWare Pro software (included with ZW-RCVR). Depending on your system deployment, a HOBO data router (ZW-ROUTER) may be required.



## HOBO ZW-005 Data Logger Specifications

**Buffer memory:** 3k measurements

**Sample rate:** 1 min to 18 hrs

**Transmission rate:** 2 min and greater

**Power options:** AC power adapter, Battery Backup

### Measurement Range

**Temp:** -40° to 70° C (-40° to 158° F)

**RH:** 0 to 100% RH

**Analog channels:** 0 to 2.5 Vdc; 0 to 5 Vdc (w/CABLE-ADAP5); 0 to 10 Vdc (w/ CABLE-ADAP10)

**Pulse channel:** (w/CABLE-2.5-STEREO) 0 to 65,535 pulses per logging interval

### Accuracy

**Temperature:**  $\pm 0.21^{\circ}\text{C}$  from 0 to  $50^{\circ}\text{C}$  ( $\pm 0.38^{\circ}\text{F}$  from  $32^{\circ}$  to  $122^{\circ}\text{F}$ ); see Plot A

**RH:**  $\pm 2.5\%$  from 10%RH to 90%RH typical to a maximum of  $\pm 3.5\%$  including hysteresis at  $25^{\circ}\text{C}$  ( $77^{\circ}\text{F}$ ); below 10%RH and above 90%RH  $\pm 5\%$  typical

**Analog channel:**  $\pm 1.544$  mV plus 2% of reading typical

### Operating Range

**Temp:** -20 to  $50^{\circ}\text{C}$  (-4 to  $122^{\circ}\text{F}$ ) when battery powered, -20 to  $70^{\circ}\text{C}$  (-4 to  $158^{\circ}\text{F}$ ) when line powered.

**RH:** 5%-95% non-condensing

### Resolution

**Temp:**  $0.02^{\circ}\text{C}$  @  $25^{\circ}\text{C}$  ( $0.04^{\circ}\text{F}$  @  $77^{\circ}\text{F}$ )

**RH:** 0.05% Analog channel: 0.6 mV

**Pulse channel:** 1 pulse

### Response Time

**Temp:** 5 min. in air moving 1m/sec (3.3 ft./sec)

**RH:** 10 min. in air moving 1 m/sec (3.3ft/sec)

**Range:** Approx. 100m (300ft.) depending on obstructions or interference

**Weight:** 138g (4.87 oz) with batteries

**Dimensions:** 96.5 x 108 x 28mm (3.8 x 4.25x 1.1 in)

**Radio power:** 1.6 mW (2 dBm)

**Wireless data standard:** IEEE802.15.4 2.4 GHz band

## Contact Us

Sales (8am to 5pm ET, Monday through Friday)

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